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**Title:** JP59090353A2: BATTERY

**Derwent Title:** Battery with pole plate of mesh-shaped lead and grid - has upper portion of lead and/or grid in pole plate filled with solder NoAbstract Dwg 0/4  
[\[Derwent Record\]](#)

**Country:** JP Japan

**Kind:** A (See also: [JP63005862B4](#))

**Inventor:** KAWAHARA TSUTOMU;

**Assignee:** JAPAN STORAGE BATTERY CO LTD  
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**Published / Filed:** 1984-05-24 / 1982-11-15

**Application Number:** JP1982000199978

**IPC Code:** [H01M 2/26](#); [H01M 4/72](#);

**Priority Number:** 1982-11-15 JP1982000199978

**Abstract:** PURPOSE: To increase mechanical strength and electrical performance by filling wax in a lead of a plate or a lead and the upper part of a grid.  
 CONSTITUTION: Wax 5 is filled in a lead 2 and the upper part of a grid 1 comprising an expanded metal net or a porous plate, and the wax 5 and the lead 2 are bonded together. The wax is selected depending on material of the lead 2 and the grid 1, and the kind of active material 3 and electrolyte. By filling only the lead, an open part, or net part in the upper part of the grid with the wax, without special thickness increase of wax filled part, decrease of electrical resistance and increase of mechanical strength achieved.

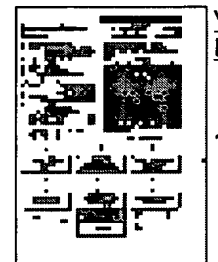
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**INPADOC Legal Status:** None [Get Now: Family Legal Status Report](#)

**Family:** [Show 2 known family members](#)

**Forward References:** [Go to Result Set: Forward references \(1\)](#)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	<a href="#">US6586912</a>	2003-07-01	Tsukamoto; Hisashi	Quallion LLC	Method and apparatus for amplitude limiting battery temperature spikes



**Other Abstract Info:** None

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(19)

(11) Publication number: **59090**

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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **57199978**(51) Intl. Cl.: **H01M 2/26 H01M 4/72**(22) Application date: **15.11.82**

(30) Priority:

(43) Date of application  
publication: **24.05.84**(84) Designated contracting  
states:(71) Applicant: **JAPAN STORAGE BATTERY  
LTD**(72) Inventor: **KAWAHARA TSUTOMU**

(74) Representative:

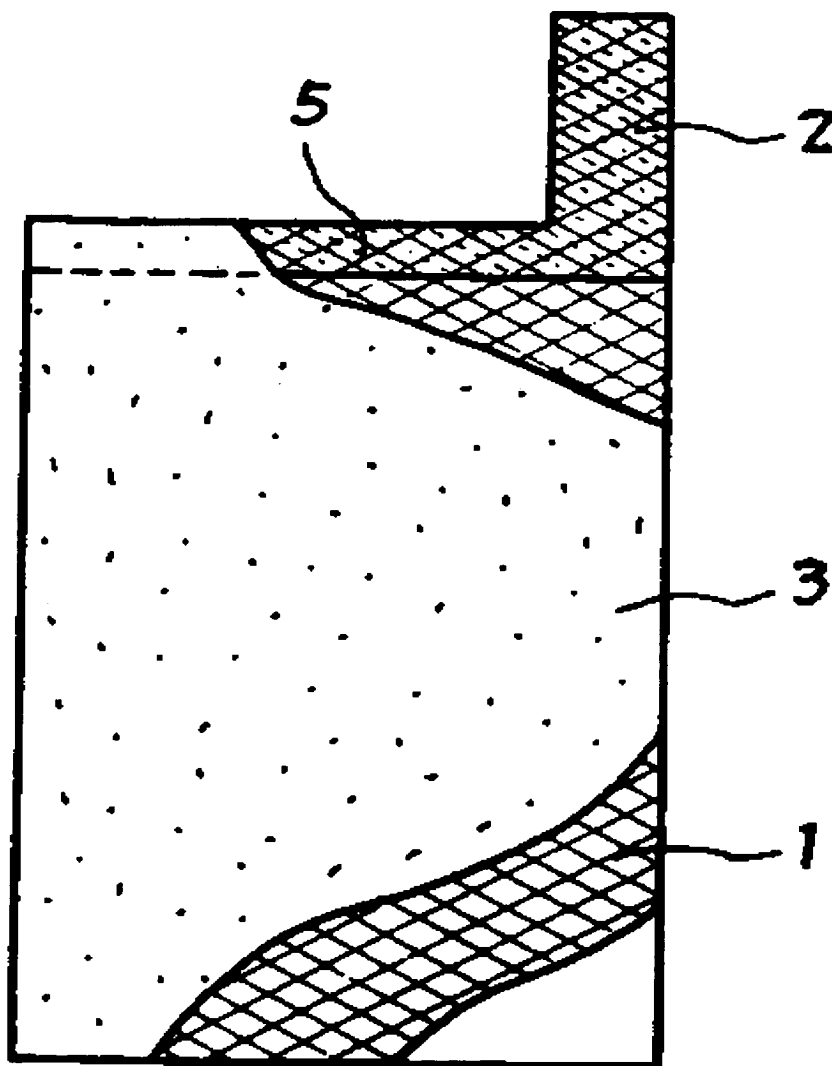
**(54) BATTERY**

(57) Abstract:

**PURPOSE:** To increase mechanical strength and electrical performance by filling wax in a lead of a plate or a lead and the upper part of a grid.

**CONSTITUTION:** Wax 5 is filled in a lead 2 and the upper part of a grid 1 comprising an expanded metal net or a porous plate, and the wax 5 and the lead 2 are bonded together. The wax is selected depending on material of the lead 2 and the grid 1, and the kind of active material 3 and electrolyte. By filling only the lead, an open part, or net part in the upper part of the grid with the wax, without special thickness increase of wax filled part, decrease of electrical resistance and increase of mechanical strength achieved.

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